



Utility application of: Minoru Umemoto et al.

App. No. : 10/585,707

Filed : July 19, 2006

For : PROCESS OF FORMING ULTRAFINE
CRYSTAL LAYER, MACHINE COMPONENT HAVING
ULTRAFINE CRYSTAL LAYER FORMED BY THE
ULTRAFINE CRYSTAL LAYER FORMING PROCESS...

Examiner : Unknown

Art Unit :

I hereby certify that this correspondence and all marked attachments
are being deposited with the United States Postal Service as first
class mail in an envelope addressed to: Commissioner for Patents,
P.O. Box 1450, Alexandria, VA 22313-1450, on

December 22, 2006

(Date)

Yasuo Muramatsu
Yasuo Muramatsu, Reg. No. 38,684

**ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231**

Sir:

Transmitted herewith is a document for the above-identified utility application.

☐ An extension of time to respond for * month(s) is hereby requested.

Time Extension Fee:

- ☐ one month (\$120 large entity)
- ☐ two months (\$450 large entity)
- ☐ three months (\$1020 large entity)

Enclosed are:

☒ An Information Disclosure Statement (IDS) with PTO-1449 form and six references.

☒ Return prepaid postcard.

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PATENT



KANEXO.014AUS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Minoru Umemoto et al.) Group Art Unit
 Serial No. : 10/585,707)
 Filed : July 10, 2006)
 For : PROCESS OF FORMING)
 ULTRAFINE CRYSTAL LAYER, MACHINE)
 COMPONENT HAVING ULTRAFINE CRYSTAL LAYER)
 FORMED BY THE ULTRAFINE CRYSTAL LAYER)
 FORMING PROCESS, PROCESS OF PRODUCING)
 THE MACHINE COMPONENT, PROCESS OF FORMING)
 NANOCRYSTAL LAYER, MACHINE COMPONENT)
 HAVING NANOCRYSTAL LAYER FORMED BY THE)
 NANOCRYSTAL LAYER FORMING PROCESS, AND)
 PROCESS OF PRODUCING THE MACHINE COMPONENT)
 Examiner : Unknown)

INFORMATION DISCLOSURE STATEMENT

Hon. Commissioner of
 Patents and Trademarks
 Alexandria, VA 22313-1450

Dear Sir:

Enclosed is a form PTO-1449 listing six references relevant to the above-identified application. A copy of each of the references is also enclosed herewith. This information disclosure statement is filed three months after the filing of the above-identified application but before the first office action on the merits, and no fee is required in accordance with 37 C.F.R. § 1.97(b)(1) and § 1.97(b)(3).

The prior art references cited in European Search Report in the counterpart European application. A copy of European Search

Serial No. : 10/585,707
Filed : July 10, 2006

Report in English is attached which shows relevancy of each cited reference to the subject matter of the invention.


REMARKS

Applicant respectfully requests that the references disclosed in the statement be considered in the substantive examination of this case.

Respectfully submitted,

MURAMATSU & ASSOCIATES

Dated: 12/22/06

By: 
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IDS-KN14.002
122206

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PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/585,707
		Filing Date	07/10/2006
		First Named Inventor	Minoru Umemoto
		Art Unit	
		Examiner Name	
Sheet 1	of 1	Attorney Docket Number	KANEKO.014AUS

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Brinkseier et al. "Werkstoffgerechte Fertigung", Carl Hanser Verlag, vol. 58, no. 6, 2003, pp336-343	
		Zurita et al. "Superficial Hardening in the Plane Grinding of ALSL 1045 Steel", Journal of Materials Engineering and Performance, ASM International, vol. 12, no. 3, June 2003	

Examiner Signature	/Christopher Kessler/	Date Considered	12/21/2009
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.K./